

SHAO Analysis Center 2010 Annual Report

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Abstract

This report gives an introduction to the astrometric/geodetic activities of Shanghai Astronomical Observatory (SHAO) in 2010. The main activities were the observation and processing of the VLBI experiments with the Chinese VLBI network (CVN) and the research activities towards VLBI2010.

1. General Information

We use the CALC/SOLVE system for routine VLBI data analysis. The members involved in the IVS analysis activities are Guangli Wang, Jinling Li, Minghui Xu, Bo Zhang, Li Guo, Fengchun Shu, and Zhihan Qian.

2. Activities in 2010

In 2010 we spent most of our time supporting the Chinese Lunar mission. We conducted six geodetic VLBI experiments using four domestic VLBI stations, the main purpose being to determine the station coordinates, especially of the two new stations, for the Chinese space exploration projects, as well as for the Project of Monitoring Network of the Chinese Mainland Geological Environment. We carried out three 2-hour experiments to measure UT1 using the two VLBI stations at Seshan and Urumqi, getting the UT1 solutions within half an hour after the experiment was completed.

Now we are preparing to restart our routine data analysis and submit to the IVS.

3. Plans for 2011

We will enhance the IVS analysis work, return to our normal contribution of solutions to IVS, and make more active efforts to be involved in the activities of the VLBI community.